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**INFORMATION DISCLOSURE  
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Sheet 1

of 1

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| Application Number     | 09/660,328         |
| Filing Date            | September 20, 2000 |
| First Named Inventor   | AVIVI et al.       |
| Group Art Unit         |                    |
| Examiner Name          |                    |
| Attorney Docket Number | AVIVI=1A           |

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published   | RECEIVED                             |
|--------------------|-----------------------|--|--------------------------------------|
| AM                 | AA                    | Amiel A., Korenstein A., Gaber E., Avivi L., "Asynchronous replication of alleles in genomes carrying an extra autosome", EUROPEAN JOURNAL OF HUMAN GENETICS 7, 223-230 (1999)   | MAR 29 2002<br>TECH CENTER 1600/2000 |
|                    | AB                    | Atkins L., Taft P., Kalal K., "Asynchronous DNA synthesis of sex chromatin in human interphase nuclei", J CELL BIOL, 15:390-393 (1962)   |                                      |
|                    | AC                    | Avivi L., Dotan A., Ravia Y., Amiel A., Schacham h., Neumann Y. "Increased spindle resistance to antimicrotubule agents in cells prone to chromosomal nondisjunction", HUMAN GENET, 83:165-170 (1989)  |                                      |
|                    | AD                    | Boggs, B., Chinault A., "Analysis of the replication timing properties of human X-chromosomal loci by fluorescence <i>in-situ</i> hybridization", PROC. NATL. ACAD. SCI. USA, 91:6083-6087 (1994)  |                                      |
|                    | AE                    | Boggs, B., Chinault A., "Analysis of DNA replication by fluorescence <i>in situ</i> hybridization", METHODS, 13:259-270 (1997)   |                                      |
|                    | AF                    | Chess A., "Expansion of the allelic exclusion principle?", SCIENCE 279:2067-2068 (1998)  |                                      |
|                    | AG                    | Chess A., Simon I., Cedar H., Axel R., "Allelic inactivation regulates olfactory receptor gene expression", CELL 78:823-834 (1994)   |                                      |
|                    | AH                    | Cui h., Horon I., Ohlsson R., Hamilton S., Feinberg A., "Loss of imprinting in normal tissue of colorectal cancer patients with microsatellite instability", NAT MED 4:1276-1280 (1998)  |                                      |
|                    | AI                    | Dhar V., Magar D., Iqbal A., Schildraut C., "The coordinate replication of the human $\beta$ -globin gene domain reflects its transcriptional activity and nuclease hypersensitivity", MOL CELL BIOL 8:4958-4965 (1988)  |                                      |
|                    | AJ                    | Dhar V., Skoultschi A., Schildraut C., "Activation and repression of a $\beta$ -globin gene in cell hybrids is accompanied by a shift in its temporal replication", MOL CEL BIOL 9:3524-3532 (1989)  |                                      |
|                    | AK                    | Dotan Z., Dotan A., Imanovitch T., Ravia Y., Oniashvili N., Leibovitch I., Ramon J., Avivi L., "Allele-specific mode of replication in-periphera lymphocytes of rena cell carcinoma patients: A new aspect of genomic instability", Annual Meeting at the American Urological Association, May 1999, Dallas, Texas.                                    |                                      |
|                    | AL                    | Dotan Z., Dotan A., Imanovitch T., Ravia Y., Oniashvili N., Leibovitch I., Ramon J., Avivi L., "Allele-specific mode of replication in periphera lymphocytes of rena cell carcinoma patients: A new aspect of genomic instability- a possible clinical use - part II", Annual Meeting at the American Urological Association, Eilat, Israel, Nov. 1998 |                                      |
| AM                 | AM                    | Epner E., Forrester W., Groudine M., "Asynchronous DNA replication within the human $\beta$ -gobin gene", PROC NATL ACAD SCI USA, 85:8081-8085 (1988)  |                                      |

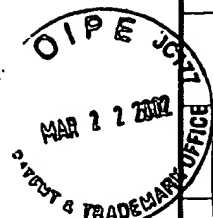
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| AN | Feinberg A., "Genomic imprinting and cancer", THE GENETIC BASIS OF HUMAN CANCER, Vogelstein B., Kinzler L., eds., McGraw-hill, New York pp. 95-107 (1998)  |  |
| AO | Goldman, M., holmquist G., Gray M., caston L., Nag A., "Replication timing of genes and middle repetitive sequences", SCIENCE 224:686-692 (1984)   |  |
| AP | Grumbach M., Morishima A., Taylor J., "Human sex chromosome abnormalities in relation to DNA replication and heterochromatinization.", "ROC NATL ACAD SCI USA, 49:581-589 (1963)   |  |
| AQ | Gunaratne, P., Nakao M., Ledbetter D., Sutcliffe J., Chinault A., "Tissue-specific and allele-specific replication timing control in the imprinted human Prader-Willi syndrome region", GENES & DEV 9:808-820 (1995)                   |  |
| AR | Hatton K., Dhar V., Brown E., Iqbal M., Stuart S., Didamo V., Schickraut C., "Replication program of active and inactive multigene families in mammalian cells", MOL CELL BIOL, 8:2149-2158 (1988)                                     |  |
| AS | Hollander G., Zuklys S., Morel C., Mizoguchi E., Mobisson K., Simpson S., Terhorst C., Wishart W., Golan Dhan A., burakoff S., "Monoclonal expression of the interleukin-2 locu", SCIENCE 279:2118-2121 (1998)                         |  |
| AT | Holmquist G., "Role of replication time in the control of tissue specific gene expression" AM J HUM GENET 40:151-173 (1987)  |  |
| AU | Jackson A., Loeb L., "The mutation rate and cancer" GENETICS 148:1483-1490 (1998)  |  |
| AV | Kinzler K., Vogelstein B., "Colorectal tumors. THE METABOLIC AND MOLECULAR BASES OF AT INHERITED DISEASE, 7th ed. Vol. 1, Scriver C., Beaudet A., Sly W., Valle D., eds., McGraw-Hill, New York, pp. 643-663 (1995)                    |  |
| AW | Kitsberg D., Selig S., Brandeis M., Simon I., Keshet I., Driscoll D., Nicholls R., Cedar H., "Allele-specific replication timing of imprinted gene regions," NATURE 364:459-463 (1993).  |  |
| AX | Knoll J., Cheng S., Lalande M., "Allele specificity of DNA replication timing in the Angelman/Prader-Willi syndrome imprinted chromosomal region," NAT GENET 6:41-46 (1994).   |  |
| AY | Knudson A., "Antioncogenes and human cancer," PROC NATL ACAD SCI USA 90:10914-10921 (1993).  |  |
| AZ | LaSalle J., Lalande M., "Domain organization of allele-specific replication within the GABRB3 gene cluster requires a biparental 15q1 1-13 contribution," NAT GENET 9:386-394 (1995).  |  |
| BA | Levanon D., Negreanu V., Bernstein Y., Bar-Am I., Avivi L., Groner Y., "AML1, AML2, and AML3, the human members of the runt domain gene-family: cDNA structure, expression, and chromosomal localization," GENOMICS 23:425-432 (1994). |  |
| BB | Latt et al., "Patterns of late replication in X chromosomes of human Lymphoid cells," GENET CYTOGENET 3:171-181 (1981).  |  |
| BC | Levine, A., "p53, the cellular gatekeeper for growth and division," CELL 88:323-331 (1981).  |  |
| BD | Lima de Faria A., Jaworska H., "Late DNA synthesis in heterochromatin," NATURE 217:13 8-142 (1968).  |  |

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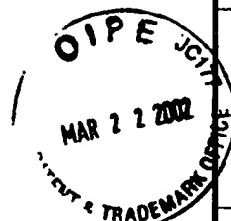
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| BE | Linehan W., Lerman M., Zbar B., "Identification of the VHL gene: its role in renal cancer," JAMA. Vol. 273, No. 7, pp. 564-570 (1995).  |
| BF | Litmanovitch T., Altaras M., Dotan A., Avivi L., "Asynchronous replication of homologous $\alpha$ -satellite DNA loci in man is associated with non-disjunction," CYTOGENET CELL GENET 81:26-35 (1998).   |
| BG | Loeb L., "Mutator phenotype may be required for multistage carcinogenesis," CANCER RES 51:3075-3079 (1991).   |
| BH | Look T., "Genes altered by chromosomal translocations in leukemia and lymphomas," THE GENETIC AT BASIS OF HUMAN CANCER, Vogelstein B., Kinder K., eds., McGraw-Hill, New York, pp. 109-141 (1998).  |
| BI | Miller O., Schnedl W., Allen J., Erlanger B., "5-Methylcytosine localized in mammalian constitutive heterochromatin," NATURE 251:636-637 (1974).  |
| BJ | Miller O., "Is the centromeric heterochromatin of <i>Mus musculus</i> late replicating?," CHROMOSOMA 55: 165-170 (1976).  |
| BK | Mukherjee A., Murty V., Chaganti R., "Detection of cell-cycle stage by fluorescence in situ hybridization: its application in human interphase cytogenetics," CYTOGENET CELL GENET 68:91-94 (1992).   |
| BL | Ohlsson R., Tycko B., Sapienza C., "Monoallelic expression: there can only be one," TIG Vol. 14, No. 11, pp. 435-438 (1967).  |
| BM | Priest J., Heady J., Priest R., "Delayed onset of replication of human X chromosomes," J CELL BIOL, 35:483-487 (1967).  |
| BN | Randhawa G., Cui H., Barletta J., Strichman-Almashanu L., Talpaz M., Kantaliian H., Deisseroth A., Champlin R., Feinberg A., "Loss of imprinting in disease progression in chronic myelogenous leukemia," BLOOD Vol. 91, No. 9, pp. 3144-3147 (1998). |
| BO | Selig S., Ariel M., Goitein R., Marcus M., Cedar H., "Regulation of mouse satellite DNA replication time," EMBO J Vol. 7, no. 2, pp. 419-426 (1988).  |
| BP | Selig S., Okumura K., Ward D., Cedar H., "Delineation of DNA replication time zones by fluorescence <i>in situ</i> hybridization," EMBO J Vol. 11. no. 3, pp. 1217-1225 (1992).   |
| BQ | Smrzka O., Fae I., Stoger R., Kurzbaue R., Fischer G., Henn T., Weith A., Barlow D., "Conservation of maternal-specific methylation signal at the human IGF2R locus," HUM MOL GENET, Vol. 4, No. 10, pp. 1945-1952 (1995).                            |
| BR | Taylor J., "Asynchronous duplication of chromosomes in cultured cells of Chinese hamster," J BIOPHYS BIOCHEM CYTOL, 7:455-464 (1960).   |
| BS | Ten Hagen K., Gilbert D., Willard H., Cohen S., "Replication timing of DNA sequences associated with human centromeres and telomeres," MOL CELL BIOL 10:6348-6355 (1990).   |
| BT | Torchia B., Call L., Migeon B., "DNA replication analysis of FMRI, XIST, and factor 8C loci by FISH shows nontranscribed X-linked genes replicate late.," AM J HUM GENET 55:96-104 (1994).  |
| BU | White, L., Rogan P., Nicholls R., Wu B., Korf B., Knoll J., "Allele-specific replication of 15q11-q13 loci: a diagnostic test for detection of uniparental disomy," AM J HUM GENET 59:423-430 (1996).   |

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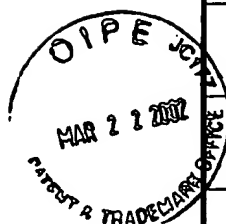
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| <input checked="" type="checkbox"/> | BV | Willard H., Lad S., "Analysis of deoxyribonucleic acid replication in human X chromosomes by fluorescence microscopy," AM J HUM GENET 28:213-227 (1976).   |  |
| <input type="checkbox"/>            | BW | Yeshaya J., Shalgi R., Shohat M., Avivi L., "FISH-detected delay in replication timing of mutated FMRI AT alleles on both active and inactive X-chromosomes," HUM GENET (in press) (1999).   |  |
| <input type="checkbox"/>            | BX | Dotan et al., "Numerical chromosome aberrations in non-malignant cells derived from children suffering from different neoplasias", AMERICAN JOURNAL OF HUMAN GENETICS, 49(4)1312 (1991)  |  |
| <input type="checkbox"/>            | BY | Bar-am et al., "Numerical chromosome aberrations in non-malignant lymphocytes derived from patients suffering from different types of neoplasia", JOURNAL OF CANCER RESEARCH AND CLINICAL ONCOLOGY, 116(Suppl., Part I):S 1-772 (1990)         |  |
| <input type="checkbox"/>            | BZ | Bar-Am et al., "Increased level of aneuploidy in peripheral blood lymphocytes derived from patients with prostate cancer", UROLOGICAL RESEARCH, 21(6)P61 (1993)  |  |
| <input type="checkbox"/>            | CA | Mukamel et al., "The effect of bilateral orchiectomy on the behavior of PHA-stimulated lymphocytes in patients with prostatic cancer", THE JOURNAL OF UROLOGY, 516A (1989)   |  |
| <input type="checkbox"/>            | CB | Amiel et al., "Asynchronous replication of p53 and 21q22 loci in chronic lymphocytic leukemia", HUM GENET, 101:219-222 (1997)  |  |
| <input type="checkbox"/>            | CC | Amiel et al., "Replication pattern of the p53 and 21q22 loci in the premalignant and malignant stages of carcinoma of the cervix", AMERICAN CANCER SOCIETY, 1965-1971 (1998)   |  |
| <input type="checkbox"/>            | CD | Amiel et al., "Temporal differences in replication timing of homologous loci in malignant cells derived from CML and lymphoma patients", GENES, CHROMOSOMES & CANCER 22:225-231 (1998)   |  |
| <input type="checkbox"/>            | CE | Dotan et al., "Modification in the inherent mode of allelic replication in lymphocytes of patients suffering from renal cell carcinoma: A novel genetic alteration associated with malignancy", GENES, CHROMOSOMES & CANCER, 27:270-277 (2000) |  |
| <input type="checkbox"/>            | CF | Amiel et al., "Replication status as a marker for predisposition for lymphoma in patients with chronic hepatitis C with and without cryoglobulinemia", EXPERIMENTAL HEMATOLOGY, 1-5 (2000)   |  |
| <input type="checkbox"/>            | CG | Tockman et al., "Considerations in bringing a cancer biomarker to clinical application", CANCER RESEARCH (SUPPL.) 52:2711s-2718s (1992)  |  |
| <input checked="" type="checkbox"/> | CH | Amiel et al., "Asynchronous replication of allelic loci in Down Syndrome", EUROPEAN JOURNAL OF HUMAN GENETICS, 6:359-364 (1998)  |  |
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